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INFRARED AND OPTICS DIVISION

25 September 1973
Report No. 102200-5-L

National Aeronautics and Space Administration
Johnson Space Center
Principal Investigator Management Office
Mail Code TF6
Houston, Texas 77058

Attention: Mr. Zack H. Byrns

Contract: NAS 9-13279

Subject: Second Quarterly Report for Period 8 June 1973
Through 31 August 1973

Dear Sir:

The following is the second quarterly report for this contract entitled,
"Determination of the Earth's Aerosol Albedo Using Skylab Data."

Work on this contract is performed in the Infrared and Optics Division
directed by Mr. Richard R. Legault. Dr. Robert E. Turner is the Principal
Investigator for this contract.

Progress

Screening imagery from SL-2 were received for the substitute test site
over White Sands, New Mexico. A preliminary look at the data indicates that
there are some interesting sites in which the surface albedo is very low, an
important factor in this experiment. Simultaneous C-130 aircraft data are
still needed however, as well as the necessary information to locate and
correlate position.

A small subset of Skylab data will be analyzed when it is received. Also,
additional information should become available on the meteorological conditions
for that area.

SL-3 data were obtained in September for the Lake Michigan site. Simult-
aneous C-47 aircraft coverage was also obtained.

Plans

During the next quarter it is expected that a preliminary analysis of
the White Sands data can take place. An effort will be made to determine
auxiliary meteorological data for both sites at the time of data collection.

(E73-11080) DETERMINATION OF THE EARTH'S
AEROSOL ALBEDO USING SKYLAB DATA

Quarterly Report, 8 Jun. - 31 Aug. 1973

(Environmental Research Inst. of Michigan)

2 p HC \$3.00

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Travel

No travel took place under this contract during the last quarter period.

Submitted by:

Robert E. Turner
Robert E. Turner
Principal Investigator

Approved by:

F. J. Thomson for
Richard R. Legault, Director
Infrared and Optics Division

RET:rmc